

10/672,572

STN-STRUCTURE SEARCH

4.12.04

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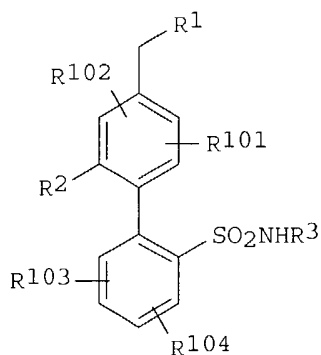
Inventor
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:755214 CAPLUS
DOCUMENT NUMBER: 137:263024
TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, Jhon E.; Gu, Zhengxiang
PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
SOURCE: U.S. Pat. Appl. Publ., 206 pp., Cont.-in-part of U.S. Ser. No. 643,640, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002143024	A1	20021003	US 2000-737201	20001214
US 6638937	B2	20031028		

PRIORITY APPLN. INFO.:

US 1998-91847P	P	19980706
US 1999-345392	B2	19990701
US 1999-464037	B2	19991215
US 2000-481197	B2	20000111
US 2000-513779	A2	20000225
US 2000-604322	A2	20000626
US 2000-643640	B2	20000822

OTHER SOURCE(S): MARPAT 137:263024
GI



AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, pyridyloxy, triazolyl, quinolinyl, etc.; R2 = H, halo, CHO, (halo)alkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO₂, etc.; R3 = heteroaryl; R101-R104 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, haloalkoxyalkyl, alkoxy, alkoxyalkoxy, cyano, OH, hydroxyalkyl, NO₂, etc; with provisos) were prepared as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-BrC₆H₄CH₂OH was coupled with [2-[[[(4,5-dimethyl-3-isoxazolyl)](2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide (66%). This was

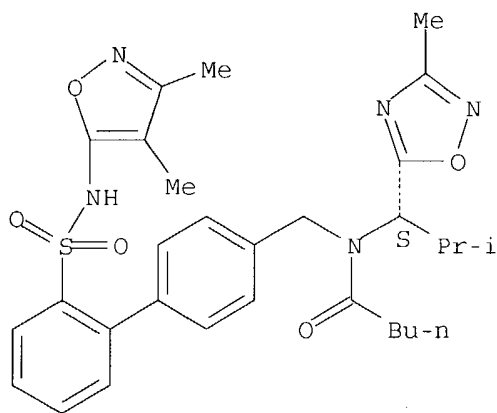
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 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

RN 254738-00-6 CAPLUS

CN Pentanamide, N-[[2'-[[[(3,4-dimethyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-(3-methyl-1,2,4-oxadiazol-5-yl)propyl]- (9CI) (CA INDEX NAME)

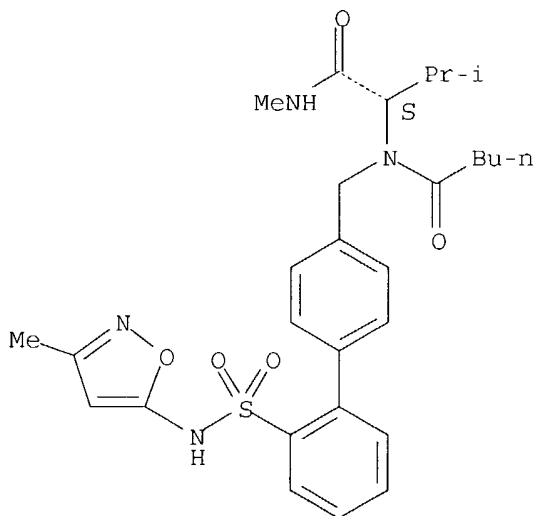
Absolute stereochemistry.



RN 254738-10-8 CAPLUS

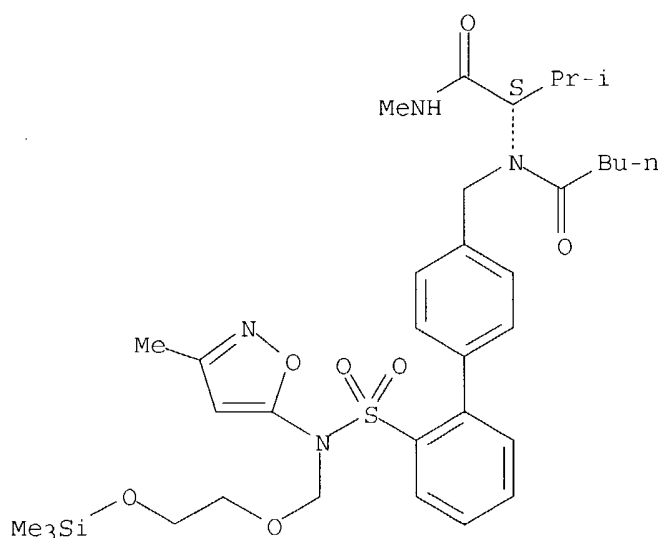
CN Pentanamide, N-[[2'-[[[(3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 254738-11-9 CAPLUS

CN Pentanamide, N-[[2'-[[[(4-bromo-3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]-



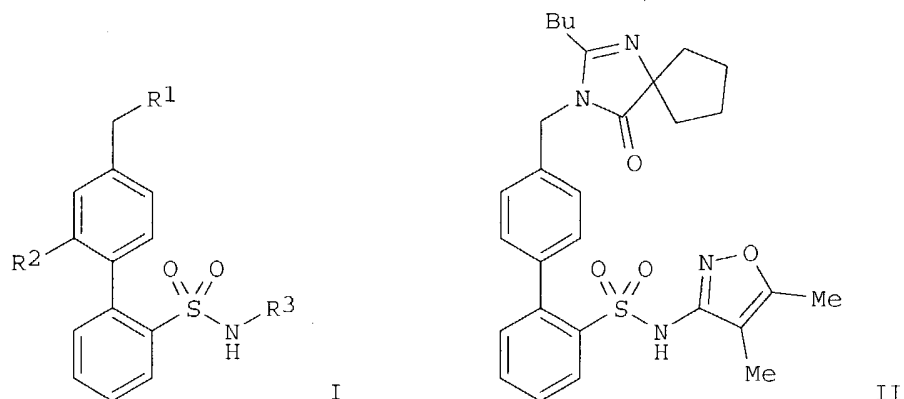
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:453059 CAPLUS
 DOCUMENT NUMBER: 135:46172
 TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
 INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, John E.; Gu, Zhengxiang
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
 SOURCE: PCT Int. Appl., 287 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044239	A2	20010621	WO 2000-US33730	20001213
WO 2001044239	A3	20011101		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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			US 1999-464037	A 19991215
			US 2000-481197	A 20000111
			US 2000-513779	A 20000225
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			WO 2000-US33730	W 20001213

10/672,572

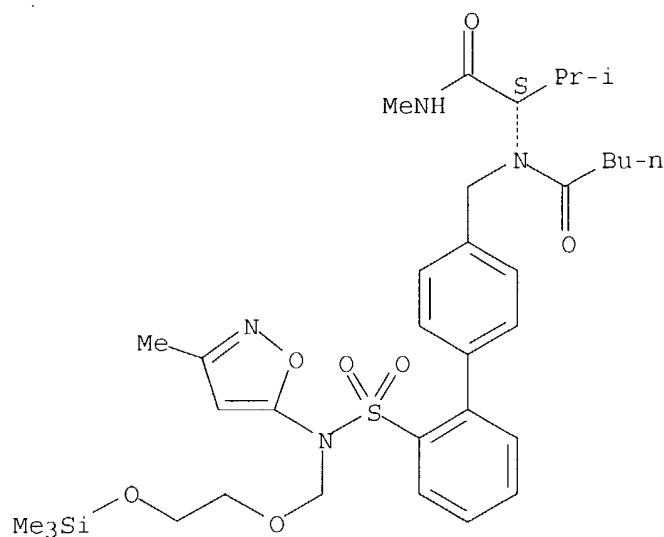
OTHER SOURCE(S) :
GI

MARPAT 135:46172



AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, (halo)alkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO₂, etc.; R3 = heteroaryl; with provisos) were prepared as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-BrC₆H₄CH₂OH was coupled with [2-[(4,5-dimethyl-3-isoxazolyl)](2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide (66%). This was brominated to give the 4'-bromomethyl derivative (90%), reacted with 2-butyl-1,3-diazaspiro[4.4]non-1-en-4-one hydrochloride, and deprotected (49% for two steps) to give II.

IT 254738-00-6P 254738-10-8P 254738-11-9P
254738-85-7P 254738-86-8P 254738-89-1P
254738-90-4P 254738-91-5P 254739-03-2P
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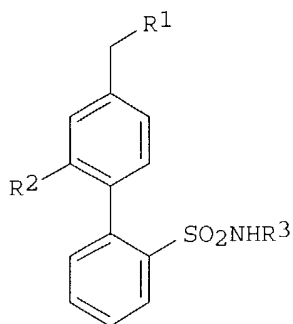


L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:34745 CAPLUS
 DOCUMENT NUMBER: 132:93309
 TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
 INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, John E.; Gu, Zhengxiang
 PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
 SOURCE: PCT Int. Appl., 283 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000001389	A1	20000113	WO 1999-US15063	19990701
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EE 200100006	A	20020617	EE 2001-6	19990701
JP 2002519380	T2	20020702	JP 2000-557835	19990701
NZ 508118	A	20030725	NZ 1999-508118	19990701
ZA 2000006772	A	20020220	ZA 2000-6772	20001120
LT 4854	B	20011126	LT 2000-123	20001222

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NO 2001000062	A	20010305	NO 2001-62	20010105
BG 105205	A	20010928	BG 2001-105205	20010131
LV 12639	B	20010920	LV 2001-17	20010205
PRIORITY APPLN. INFO.:			US 1998-91847P	P 19980706
			WO 1999-US15063	W 19990701
OTHER SOURCE(S):		MARPAT 132:93309		
GI				



AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO2, etc.; R3 = heteroaryl; with provisos), were prepared as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrC6H4CH2OH was coupled with [2-[(4,5-dimethyl-3-isoxazolyl)](2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide. This was brominated to give 4'-bromomethyl-N-(4,5-dimethyl-3-isoxazolyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide, which reacted with 2-butyl-1,3-diazaspiro[4.4]non-1-en-4-one hydrochloride followed by deprotection to give 4'-[(2-butyl-4-oxo-1,3-diazaspiro[4.4]non-1-en-3-yl)methyl]-N-(4,5-dimethyl-3-isoxazolyl)[1,1'-biphenyl]-2-sulfonamide.

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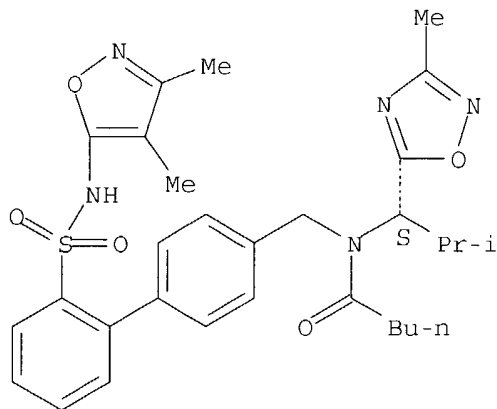
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(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

RN 254738-00-6 CAPLUS

CN Pentanamide, N-[[2'-[[[(3,4-dimethyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-(3-methyl-1,2,4-oxadiazol-5-yl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

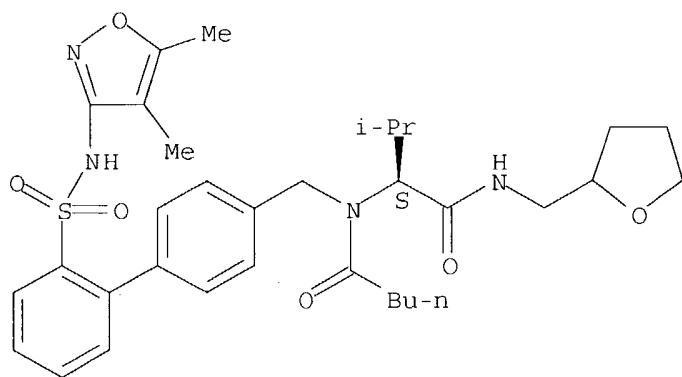


RN 254738-10-8 CAPLUS

CN Pentanamide, N-[[2'-[[[(3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/672,572



IT 254745-28-3P

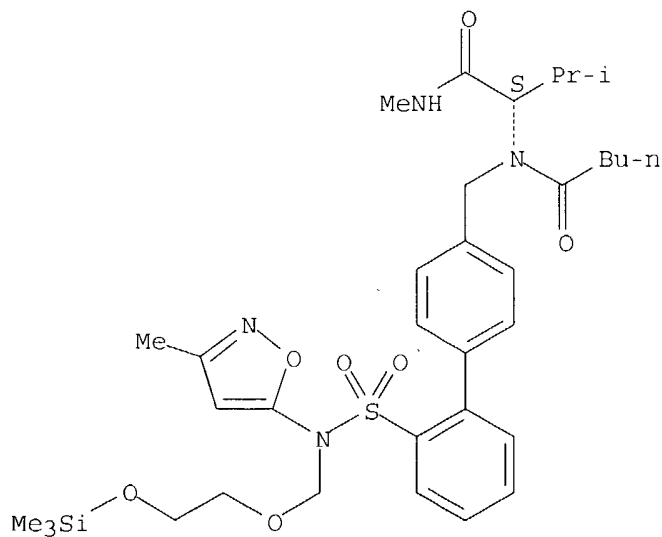
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

RN 254745-28-3 CAPLUS

CN Pentanamide, N-[[[2'-[[[(3-methyl-5-isoxazolyl)[[2-[(trimethylsilyl)oxy]ethoxy]methyl]amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 99 S L1 FULL

10/672,572

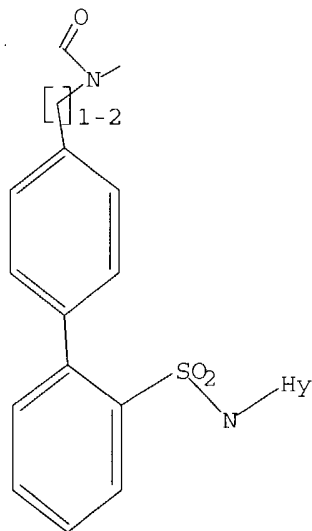
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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Day : Monday
Date: 4/12/2004
Time: 12:06:25

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = MURUGESAN

First Name = NATESAN

Application#	Patent#	Status	Date Filed	Title
<u>60523546</u>	Not Issued	020	11/20/2003	HMG-COA REDUCTASE INHIBITORS AND METHOD
<u>60489426</u>	Not Issued	020	07/23/2003	DIHYDROPYRIMIDONE INHIBITORS OF CALCIUM C
<u>60489365</u>	Not Issued	020	07/23/2003	DIHYDROPYRIMIDONE INHIBITORS OF CALCIUM C
<u>60423201</u>	Not Issued	020	11/01/2002	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI ENDOTHELIN RECEPTOR ANTAGONISTS
<u>60091847</u>	Not Issued	159	07/06/1998	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
<u>60035832</u>	Not Issued	159	01/30/1997	ENDOTHELIN ANTAGONISTS: N-[[2'-[[[(4,5-DIMETHYL-3-ISOXAZOLYL)AMINO]SUI 'BIPHENYL]-2-YL]METHYL]-N,3,3-TRIMETHYLBUT/ N-(4,5-DIMETHYL-3-ISOXAZOLYL)-2'-[(3,3-DIMETH
<u>60015072</u>	Not Issued	159	04/09/1996	HETEROARYL SUBSTITUTED PHENYL ISOXAZOLE ANTAGONISTS
<u>60013491</u>	Not Issued	159	03/12/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
<u>60007032</u>	Not Issued	159	10/11/1995	SUBSTITUTED BIPHENYLSULFONAMIDE ENDOTHI
✓ <u>10672572</u>	Not Issued	030	09/26/2003	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
✓ <u>09737201</u>	<u>6638937</u>	150	12/14/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
ABM <u>09643640</u>	Not Issued	168	08/22/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
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ABM <u>09513779</u>	Not Issued	168	02/25/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS

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ABM	<u>09345392</u>	Not Issued	168	07/01/1999	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSIN ANTAGONISTS
	<u>09172349</u>	Not Issued	161	10/14/1998	PRODRUGS OF LOBUCAVIR AND METHODS OF USE
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	<u>08799616</u>	<u>5846990</u>	150	02/13/1997	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08762547</u>	<u>5827869</u>	150	12/09/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08754715</u>	Not Issued	168	11/21/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08728238</u>	<u>6080774</u>	150	10/08/1996	SUBSTITUTED BIPHENYLSULFONAMIDE ENDOTHELI
	<u>08692869</u>	<u>5780473</u>	150	07/25/1996	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTHELI
	<u>08603975</u>	Not Issued	166	02/20/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08587076</u>	Not Issued	168	01/16/1996	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTHELI
	<u>08584767</u>	<u>6107320</u>	150	01/11/1996	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONISTS
	<u>08493331</u>	Not Issued	168	07/24/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08487358</u>	<u>5612359</u>	150	06/07/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08384066</u>	<u>5760038</u>	150	02/06/1995	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTHELI
	<u>08368285</u>	Not Issued	164	01/04/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE
	<u>08297187</u>	Not Issued	164	08/26/1994	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMIDE

08146262	5514696	150	10/29/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
08092166	5378715	150	07/15/1993	SULFONAMIDE ENDOTHELIN ANTAGONISTS
08041583	Not Issued	161	04/13/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
08021410	Not Issued	161	02/23/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
07998246	Not Issued	168	01/25/1993	SULFONAMIDE ENDOTHELIN ANTAGONISTS
07993562	5420123	150	12/21/1992	DIBENZODIAZEPINE ENDOTHELIN ANTAGONISTS
07879000	Not Issued	164	05/06/1992	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
07840496	Not Issued	161	02/24/1992	SULFONAMIDE ENDOTHELIN ANTAGONISTS
07665505	Not Issued	161	03/06/1991	HERBICIDAL DERIVATIVES OF NITROGEN-CONTAINING ACETIC ACIDS
07540653	5149357	150	06/19/1990	HERBICIDAL SUBSTITUTED BENZOYLSULFONAMIDES
07482118	Not Issued	161	02/20/1990	DIMETHOXYPYRIMIDIN-2-YLOXY BENZOIC ACID DERIVATIVES
07212856	4855480	150	06/29/1988	BENZYLAMINOXYMETHYL METHYLPROPANOIC ACID DERIVATIVES
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